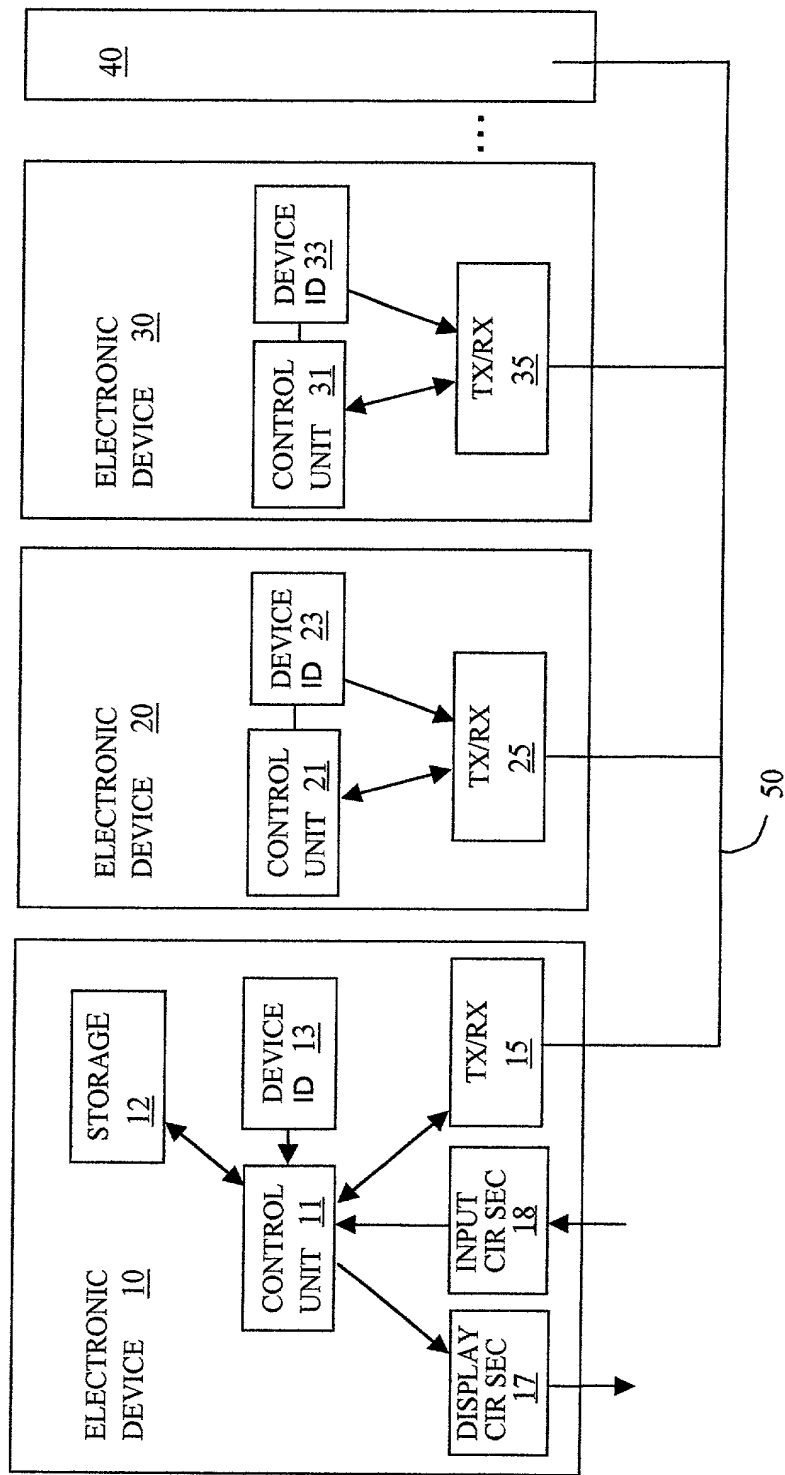
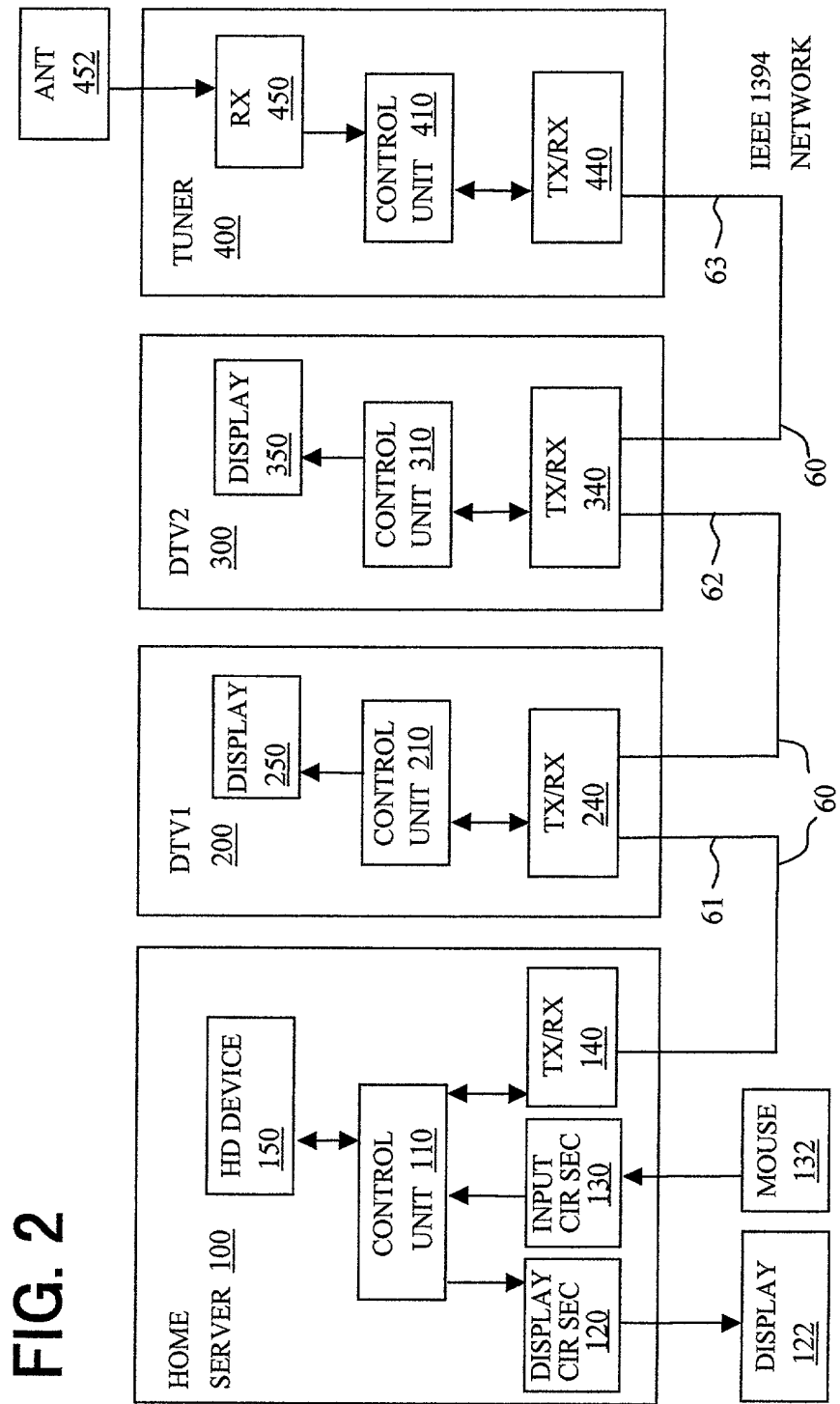


FIG. 1





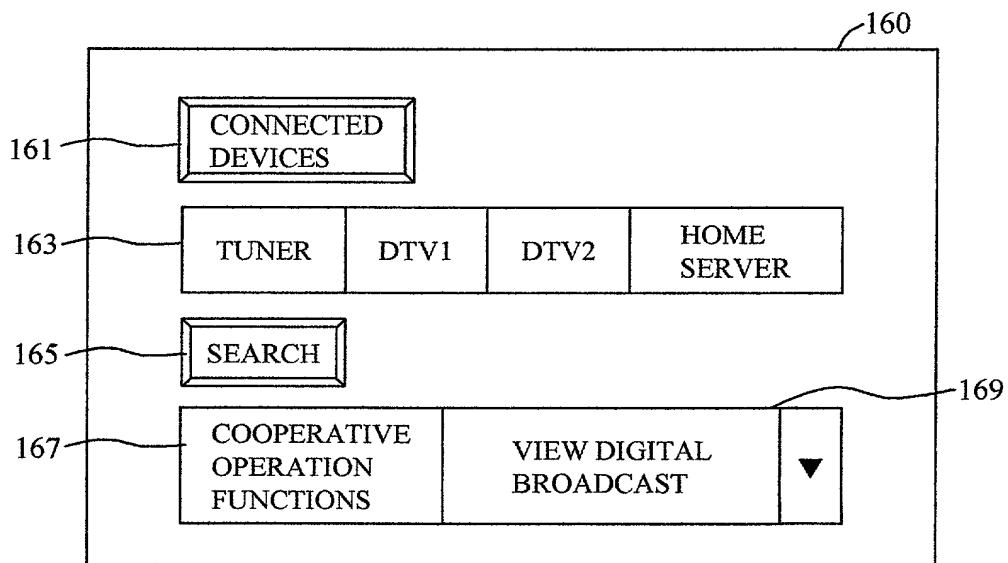
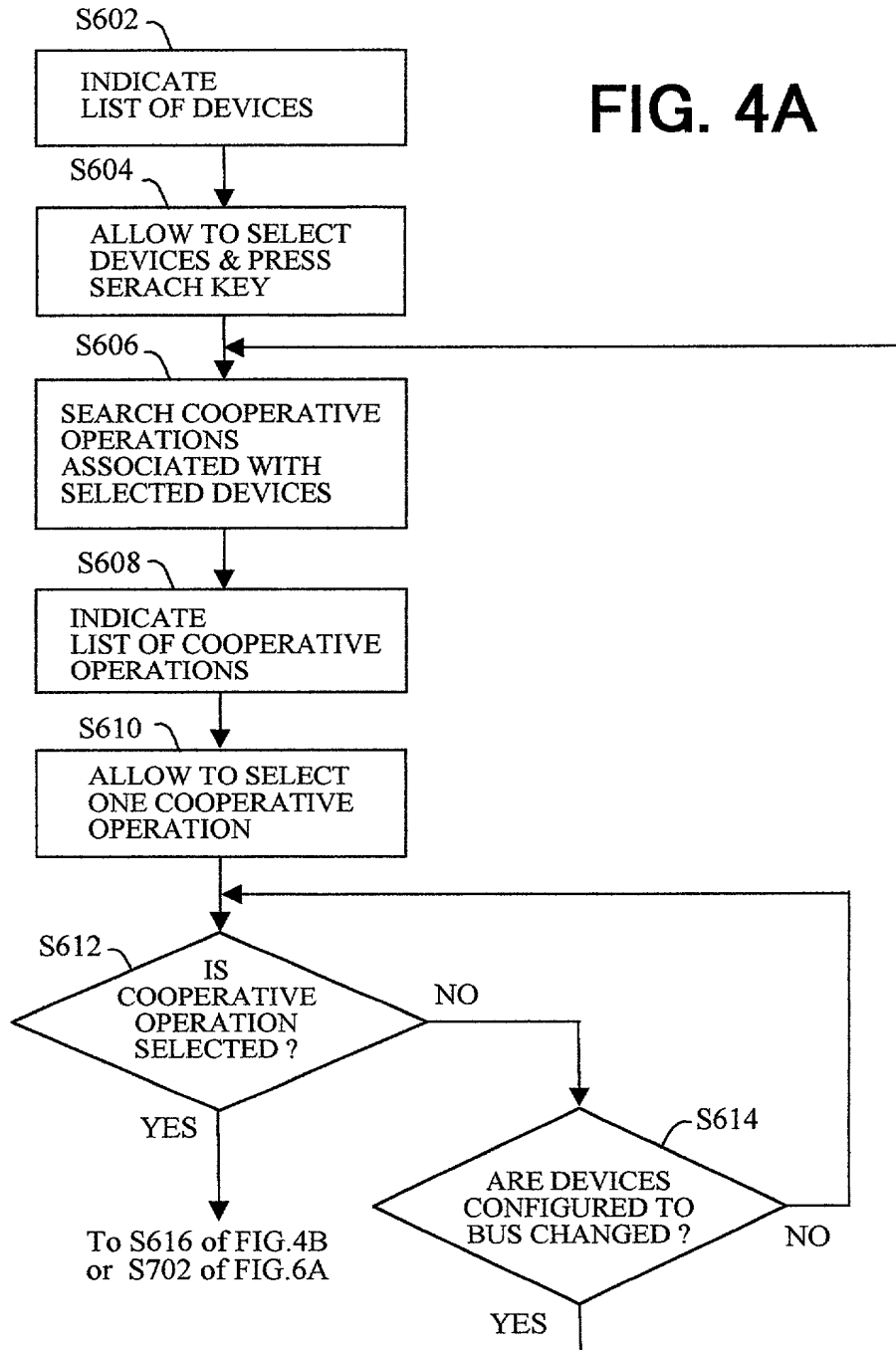


FIG. 3

FIG. 4A



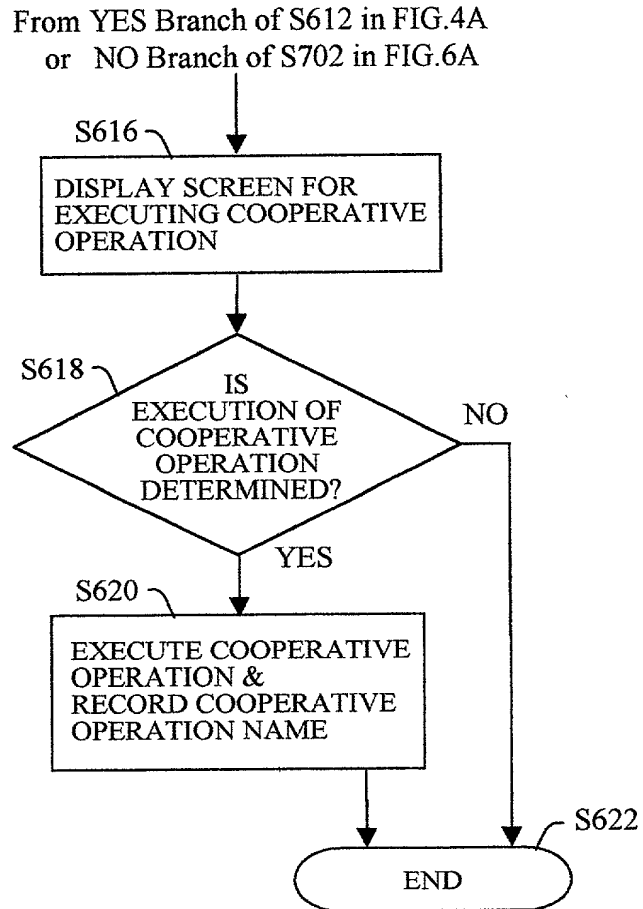


FIG. 4B

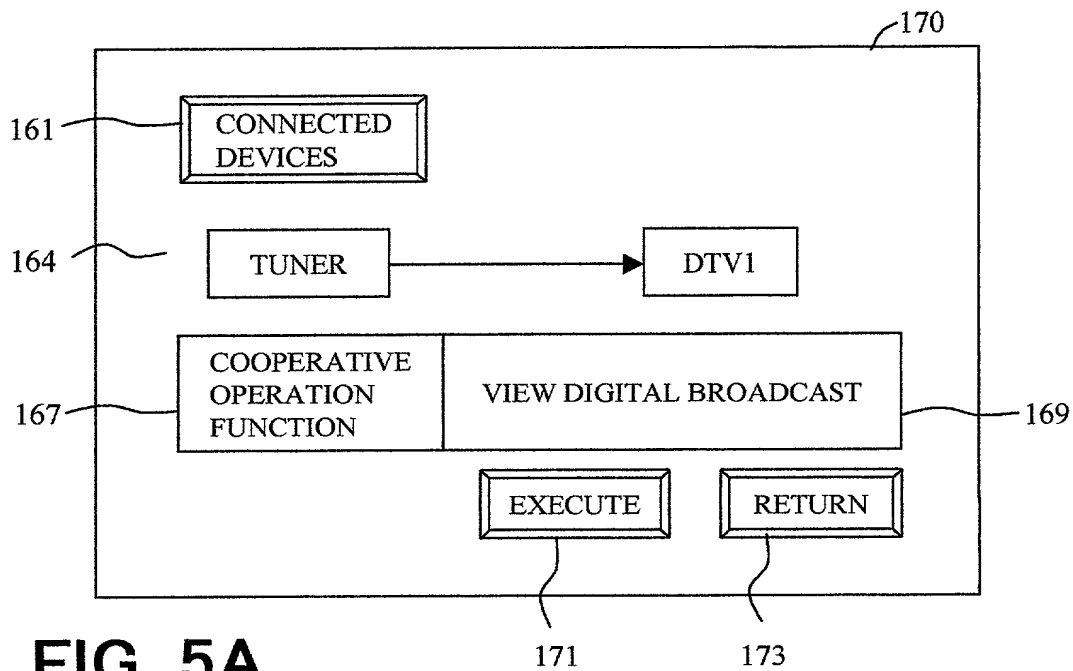


FIG. 5A

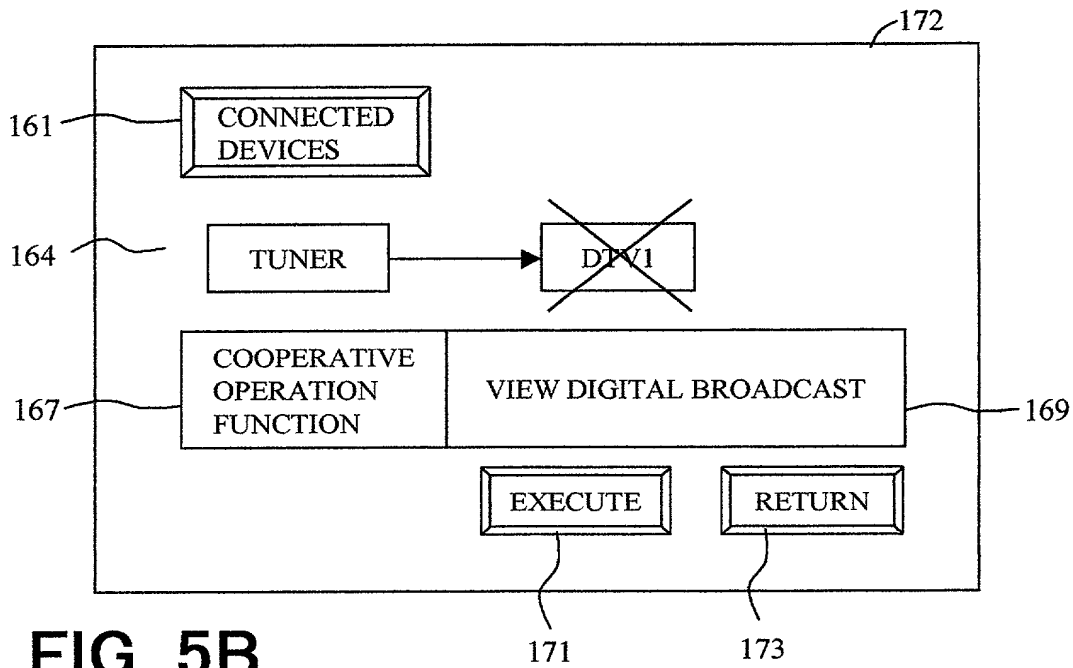


FIG. 5B

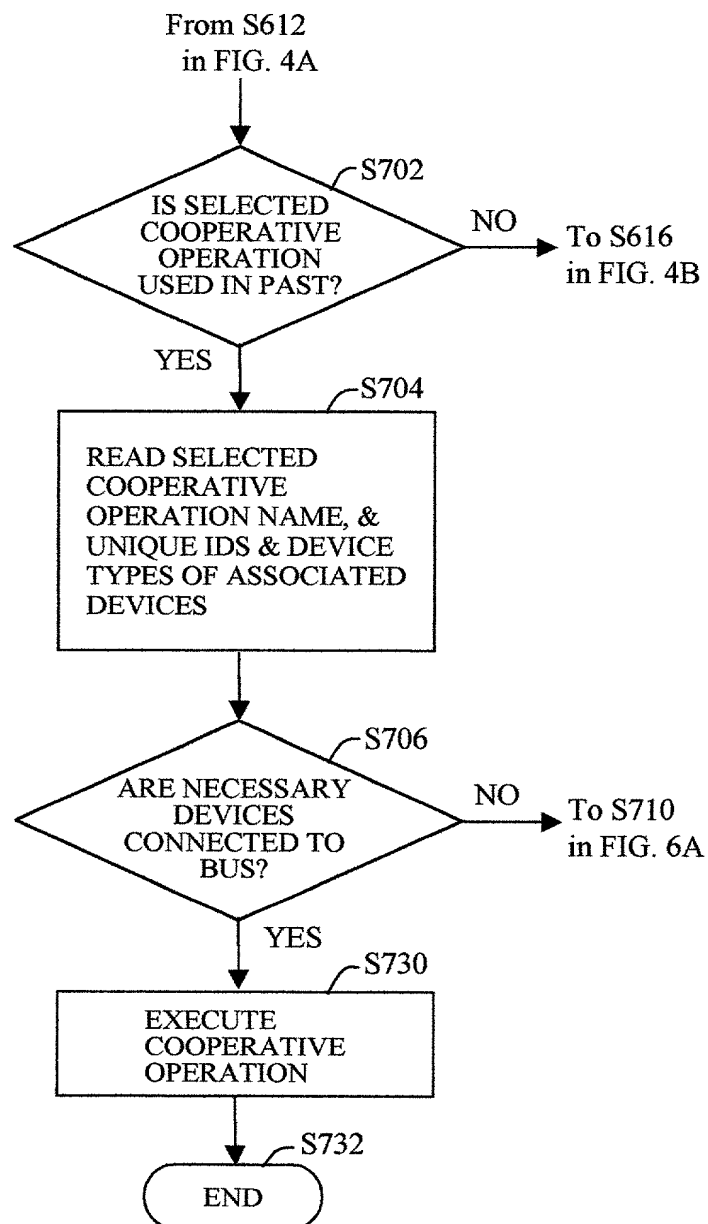
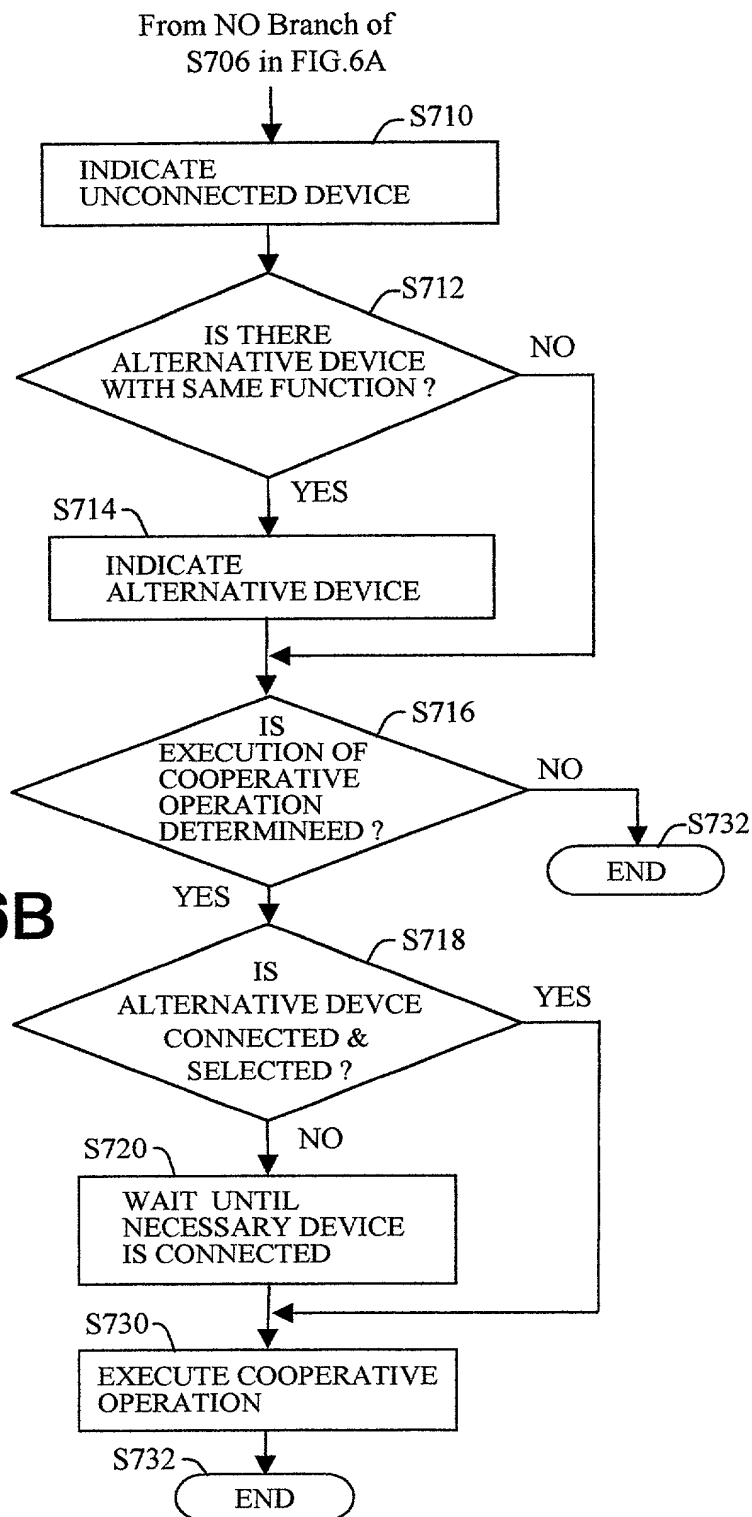


FIG. 6A

FIG. 6B



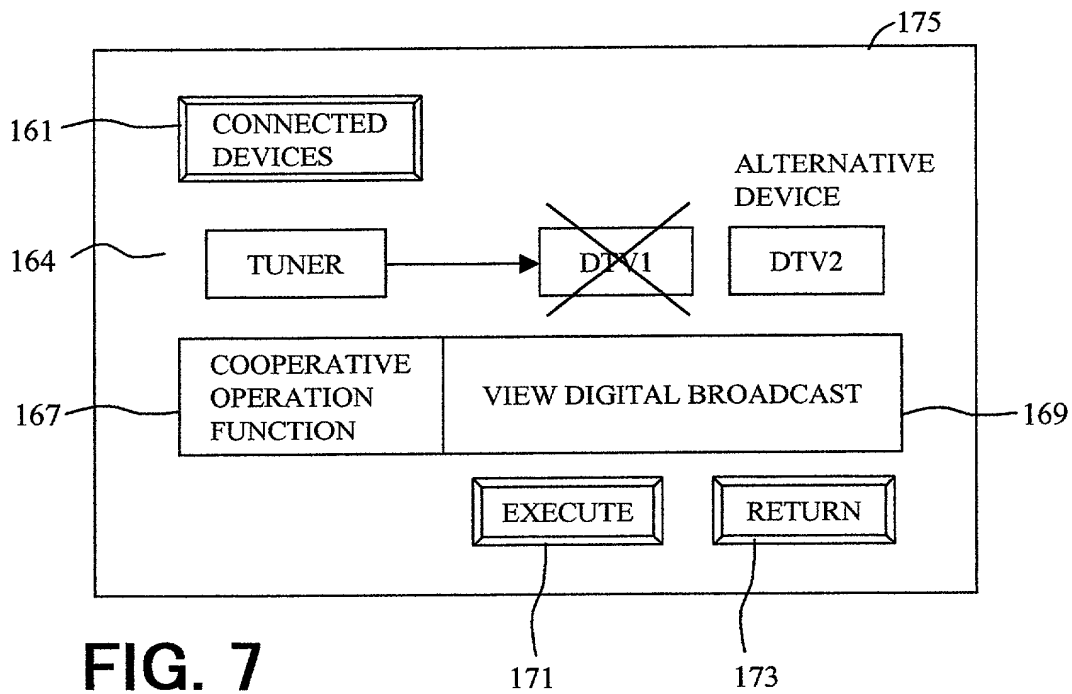


FIG. 7

FIG. 8

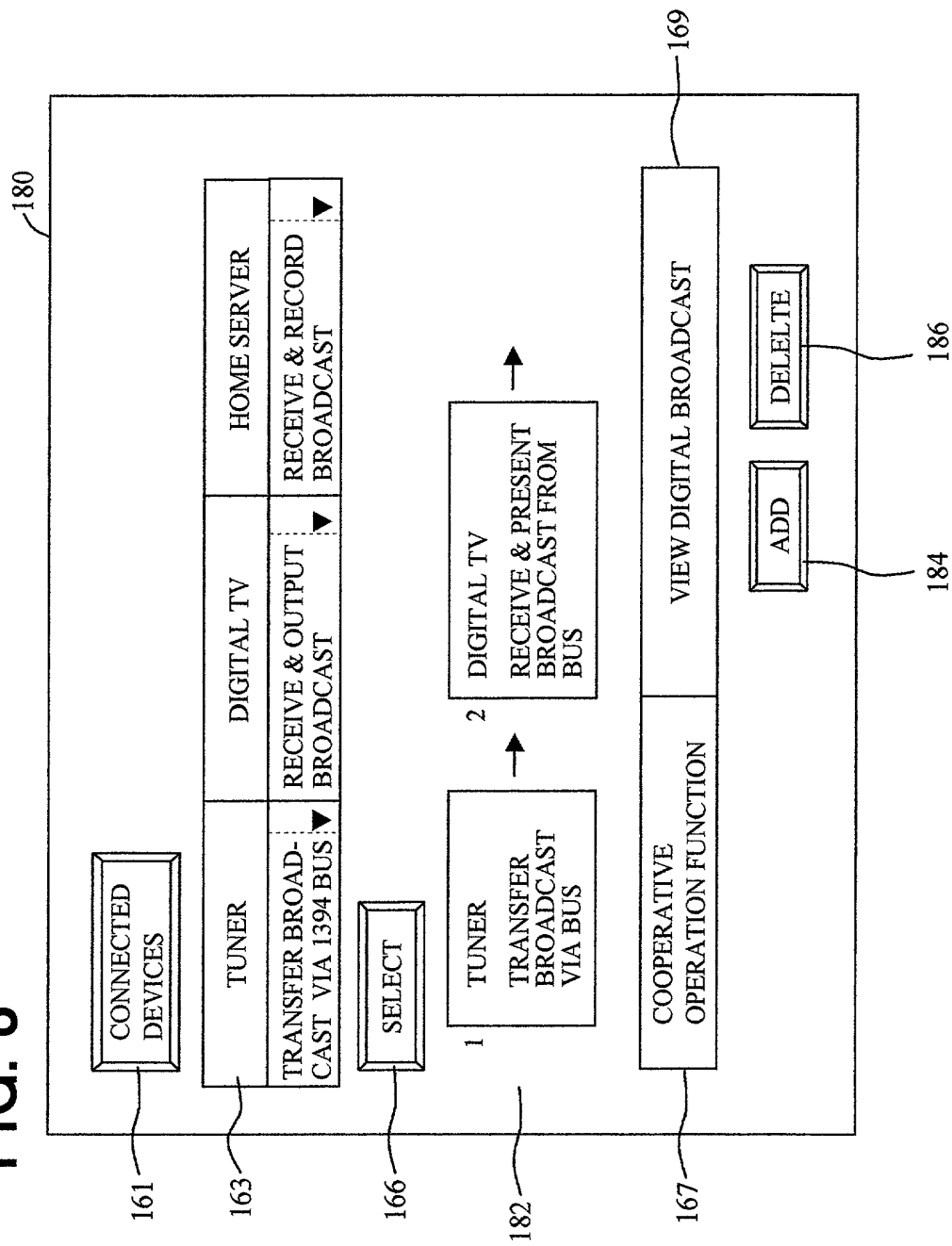


FIG. 9

TABLE 1 COOPERATIVE OPERATIONS & ASSOCIATED DEVICES

USED DEVICE TYPE 1	USED DEVICE TYPE 2	USED DEVICE TYPE 3	USED DEVICE TYPE 4	COOPERATIVE OPERATION NAMES
TUNER	DIGITAL TV			VIEW DIGITAL BROADCAST
TUNER	HOME SERVER			RECORD DIGITAL BROADCAST
HOME SERVER	DIGITAL TV			PLAY BACK RECORDED DIGITAL BROADCAST
TUNER	HOME SERVER	DIGITAL TV		TIME SHIFT VIEWING

FIG. 10

TABLE 2 COOPERATIVE OPERATIONS & ASSOCIATED
FUNCTIONS OF DEVICES FOR COOPERATIVE OPERATIONS

USED DEVICE	FUNCTION 1	USED DEVICE	FUNCTION 2	USED DEVICE	FUNCTION 3	USED DEVICE	FUNCTION 4	...	COOPERATIVE OPERATION NAMES
TUNER	TRANSFER BROADCAST VIA IEEE 1394 BUS	DIGITAL TV	RECEIVE & PRESENT BROADCAST FROM IEEE 1394 BUS					...	VIEW DIGITAL BROADCAST
TUNER	TRANSFER BROADCAST VIA IEEE 1394 BUS	HOME SERVER	RECEIVE & RECORD BROADCAST FROM IEEE 1394 BUS					...	RECORD DIGITAL BROADCAST
HOME SERVER	TRANSFER RECORDED BROADCAST VIA IEEE 1394 BUS	DIGITAL TV	RECEIVE & PRESENT BROADCAST FROM IEEE 1394 BUS					...	PLAY BACK RECORDED DIGITAL BROADCAST
TUNER	TRANSFER BROADCAST VIA IEEE 1394 BUS	HOME SERVER	RECEIVE & RECORD BROADCAST FROM IEEE 1394 BUS	HOME SERVER	TRANSFER RECORDED BROADCAST VIA IEEE 1394 BUS	DIGITAL TV	RECEIVE & PRESENT BROADCAST FROM IEEE 1394 BUS	...	TIME SHIFT VIEWING